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09812034

PRINTER RUSH

(PTO ASSISTANCE)

Application : 09812034

Examiner : Horlick

GAU : 1637

From : J. Black

Location : (IDC) FMF FDC

Date : 4/26/05

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Week Date : 1/24/05

DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449		<input type="checkbox"/> Continuing Data
<input type="checkbox"/> IDS		<input type="checkbox"/> Foreign Priority
<input checked="" type="checkbox"/> CLM	<u>4/14/04</u>	<input type="checkbox"/> Document Legibility
<input type="checkbox"/> IIFW		<input type="checkbox"/> Fees
<input type="checkbox"/> SRFW		<input type="checkbox"/> Other
<input type="checkbox"/> DRW		
<input type="checkbox"/> OATH		
<input type="checkbox"/> 312		
<input type="checkbox"/> SPEC		

[RUSH] MESSAGE:

Original claim 60 contains multiple dependencies.

Please review.

[XRUSH] RESPONSE:

Corrected.

INITIALS: JBH

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH. Doc. 503.39814X00
REV 10/04

JBH
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any one of

60. (Currently amended) A method according to claims 53 and 56-59 further comprising physically generating at least one member of said set of optimized protein sequences and experimentally testing said sequence for a desired function.
61. (Previously presented) A method according to claim 30, 31, or 53 wherein said analyzing step comprises a DEE computation.
62. (Previously presented) A method according to claim 56 wherein said analyzing step further comprises a DEE computation.
63. (Previously presented) A method according to claim 56 wherein said set of optimized protein sequences comprises the globally optimal protein sequence.
64. (Currently amended) A method according to claim 61 or 62 wherein said DEE computation is selected from the group consisting of original DEE and Goldstein DEE.
65. (Previously presented) A method according to claim 30, 31, or 53 wherein said analyzing step includes the use of at least one scoring function.
66. (Currently amended) A method according to claim 56 or 65 wherein said scoring function is selected from the group consisting of a van der Waals potential scoring function, a hydrogen bond potential scoring function, an atomic solvation scoring function, an electrostatic scoring function and a secondary structure propensity scoring function.
67. (Previously presented) A method according to claim 65 wherein said analyzing step includes the use of at least two scoring functions.
68. (Previously presented) A method according to claim 65 wherein said analyzing step includes the use of at least three scoring functions.
69. (Previously presented) A method according to claim 65 wherein said analyzing step includes the use of at least four scoring functions.
70. (Previously presented) A method according to claim 66 wherein said scoring function is an atomic solvation scoring function.
71. (Previously presented) A method according to claim 70 wherein said atomic solvation scoring function includes a scaling factor that compensates for over-counting.
72. (Previously presented) A method according to claim 30, 31, 53, or 56 further comprising experimentally testing at least one member of said set.
73. (Previously presented) A method according to claim 63 further comprising the step of:

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